	Application No.	Applicant(s)
	10/811,721	WANG, JOHNSON J. H.
Notice of Allowability	Examiner	Art Unit
	Shih-Chao Chen	2821
The MAILING DATE of this communication appeal of the communication appeal communication appeal of the communication appeal of the communication appears a second communication appears as a communication appea	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS
1. This communication is responsive to the application filed on	<u>n March 29, 2004</u> .	
2. ☑ The allowed claim(s) is/are <u>1-14</u> .		
3. $\boxtimes$ The drawings filed on <u>29 March 2004</u> are accepted by the	Examiner.	
4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the:  1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5. A SUBSTITUTE OATH OR DECLARATION must be subministed by the Notice of Draftspers (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner's Paper No./Mail Date  Identifying Indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the stached Examiner's comment regarding REQUIREMENT in the such sheet. Replacement sheet(s) should be labeled as such in the stached Examiner's comment regarding REQUIREMENT in the such sheet. Replacement sheet(s) should be labeled as such in the stached Examiner's comment regarding REQUIREMENT in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet. Replacement sheet(s) should be labeled as such in the such sheet.	been received.  been received in Application No cuments have been received in this communication to file a reply lent of this application.  itted. Note the attached EXAMINER' as reason(s) why the oath or declarate to be submitted.  ion's Patent Drawing Review (PTO- as Amendment / Comment or in the Comment or in the Comment of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.121(const of BIOLOGICAL MATERIAL in the header according to 37 CFR 1.12	national stage application from the complying with the requirements  S AMENDMENT or NOTICE OF tion is deficient.  948) attached  ffice action of the back) of the control o
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 3/29/04  4. ☐ Examiner's Comment Regarding Requirement for Deposit	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☑ Examiner's Amendn	ė
of Biological Material	9. Other	Shih-Vac Chen Shih-chao chen Primary examiner

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## **DETAILED ACTION**

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 7, line 2, "the shape of the radiation pattern" is changed to --a shape of a radiation pattern--.

In claim 12, line 5, "the control circuit" is changed to --the control signal--.

## Allowable Subject Matter

- 2. Claims 1-14 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

The primary reason for the allowance of claims 1-13 is the inclusion of the limitation of a plurality of surface-waveguide elements symmetrically positioned about and concentrically spaced from the driven omnidirectional traveling-wave antenna element. It is this limitation found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claim 14 is the inclusion of the limitation of the step of concentrically arranging a plurality of broadband/multiband surface-waveguide elements around the driven omnidirectional traveling-wave antenna. It is this

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limitation found in the claim, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes this claim allowable over the prior art.

Kaloi (U.S. Patent No. 4,370,657 teaches a microstrip antenna having a plurality of different radiating elements spaced apart in an end-to-end arrangement, above a ground plane and separated there-from by a dielectric substrate; only one element is fed at its feed point, and energy emanating from the fed element is primarily coupled at one end to parasitic elements by the electric field generated in the fed element.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shih-Chao Chen Primary Examiner Art Unit 2821 Zhik-llao Chen Shih-chao chen Primary examiner

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